

DELTA PROTECTION COMMISSION

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**Agenda Item #13**

May 14, 1999

To: Delta Protection Commission

From: Margit Aramburu, Executive Director

Subject: Submittals for CALFED Category III Grants

Background:

CALFED now requires applicants for grants to notify the Delta Protection Commission of proposed projects in the Delta. This memo updates the one sent to you in April.

Projects Which Include Acquisition:

- Contra Costa County Flood Control and Water Conservation District (Special District): Acquire land and create up to 26 acres of tidal habitat along East Antioch Creek [Phase I: Restoration between Carvallo Road and Wilbur Avenue, and nature observatory and educational area overlooking wetlands; and Phase II: Restoration between Wilbur Avenue and San Joaquin River].
- East Bay Regional Park District (Special District): Funding for Delta Science Center at Big Break Shoreline, Oakley, Contra Costa County.
- Nature Conservancy (Non-Profit): Funds for acquisition of easements on Staten Island to protect farmland and enable construction of a setback levee, if needed.
- Nature Conservancy (Non-Profit): Funds for acquisition of easements and fee interests in additional land along the lower Cosumnes River for flood control and habitat.
- US Fish and Wildlife Service (Government): Partial funding to acquire three parcels in the Stone Lakes National Wildlife Refuge.
- US Fish and Wildlife Service (Government): Funding to acquire one parcel in the Stone Lakes National Wildlife Refuge.

- US Fish and Wildlife Service (Government): Acquire Sacramento River water rights from Delta Sugar Corporation for the Stone Lakes National Wildlife Refuge.
- US Fish and Wildlife Service (Government): Funds to acquire 2 remaining properties on Liberty Island; prepare and implement a restoration plan for Liberty Island; monitor the restoration effect in concern with monitoring for Prospect Island; operate and manage the restored island for three years; and acquire two additional properties near Liberty Island and within the proposed North Delta National Wildlife Refuge project area.

Study of Non-Native Invasive Species:

- Food and Agriculture, Department of, Purple Loosestrife Prevention, Detection, and Control Action for the Sacramento/San Joaquin River Delta System and Associated Hydrological Units (noxious aquatic weed).
- Fresno, California State University, Professor Brian Tsukimura (University): Study reproductive life histories of the Chinese mitten crab.
- May Consulting Services (Private): Assess Delta levee impacts and aquatic habitat utilization by the Chinese mitten crab throughout the Delta; field research.
- San Francisco Estuary Institute (Nonprofit): "The Introduced *Spartina* Eradication Project".
- US Department of Agriculture (Government): Work with Cache Creek Conservancy, Team Arundo del Norte, US Fish and Wildlife Service and UC to evaluate the use of biological control to reduce the impact and spread of invasive plants such as saltcedar and giant reed.
- US Geological Survey (Government): Conduct research studies of Chinese mitten crabs with the goal that the resultant information will facilitate the reduction and control of crab populations; laboratory research.

Regionwide Studies:

- Applied Sciences (University, Government and Private): Study effects of contaminants on various life stages of Chinook Salmon.
- Berkeley, University of California (University), with US Geological Survey, Deltakeeper, Wichita State University, and US Fish and Wildlife Service: Study the toxicity of pesticides in surface waters to resident invertebrate species and the fish which feed upon them, particularly chinook salmon; samples will be collected throughout the Delta.

- Berkeley, University of California (University), with University of Maryland and University of Maine: Development of a new extraction technique to determine how much of the mercury or selenium in a sediment sample might be available for bioaccumulation by organisms; samples will be collected throughout the Delta.
- Boating and Waterways, Department of (Government): Research for the Egeria densa Control Program.
- Fish and Game, Department of (Government): Conduct genetic evaluation of Central Valley steelhead trout.
- San Francisco Estuary Institute (Nonprofit): Evaluate the effects of pesticides and other contaminants on the fishery food chain resources of the Sacramento-San Joaquin River basins, the San Francisco Estuary and development of pesticide monitoring guidelines.
- San Francisco Estuary Institute (Nonprofit): Study treating ballast water discharges at existing wastewater treatment plants.
- San Francisco Estuary Institute (Nonprofit): Determine the biological, physical and chemical characteristics of Ballast water arriving in the San Francisco Bay/Delta Estuary.
- US Geological Survey (Government): Study dissolved organic carbon released from Delta wetlands: composition characteristics.
- US Geological Survey (Government): Study dissolved organic carbon released from Delta wetlands: fluxes and loads.

Studies and Project Planning/ Site Specific:

- Davis, University of California (University): In cooperation with the Nature Conservancy's Cosumnes River Project, develop a comprehensive, multi-disciplinary restoration monitoring and assessment program for the Cosumnes and Mokelumne watersheds.
- Davis, University of California (University): In cooperation with the Nature Conservancy, initiate a long-term restoration planing and evaluation effort on the McCormack-Williamson Tract.
- Natural Heritage Institute, Yolo Basin Foundation and Department of Water Resources (Nonprofit and Government): Study inundation of a section of the Yolo Bypass to support splittail and other aquatic organisms in dry years.

- US Bureau of Reclamation (Government): Develop technology to meet modern fish protection criteria and enhance fish screening and salvage facilities at major water diversions in the South Delta (Tracy Fish Collection Facility): design 500 cfs test facility.
- Water Resources, Department of, and UC Davis (Government and University): On McCormack Williamson Tract, evaluate restoration alternatives for the construction of tidal wetland habitat--mosaic of aquatic, wetland, riparian, and upland habitat.

Project Construction at a Specific Site:

- Banta-Carbona Irrigation District (Special District): Construct a positive barrier fish screen on BCID's intake canal on the San Joaquin River south of Mossdale at River Mile 63.5.
- Delta In-Channel Islands Work Group (Government and Others): Construct pilot projects on four islands to evaluate techniques to protect and enhance Delta In-Channel Islands.
- Habitat Assessment and Restoration Team (Private): Create tidal marshes along 14 miles of Georgiana Slough (Andrus Island and Tyler Island).
- Reclamation District 307-Lisbon District (Special District): Repair erosion sites on the right bank of the Sacramento River using biotechnical methods instead of fill and riprap.
- Reclamation District 999-Holland Land (Special District): Repair four erosion sites on the right bank of Sutter Slough and two sites on the right bank of Miner Slough using biotechnical methods instead of fill and riprap.
- Reclamation District 2111-Dead Horse Island (Special District): Levee stabilization and riparian restoration project.
- Surface Water Resources Inc. (SWRI)(Private): Restoration of a 100-acre tidal wetland on Decker Island.
- Water Resources, Department of (Government) and Reclamation District 2023: Create four acres of habitat in Potato Slough along the north shore of Venice Island by building a new levee inland and flooding the area between the old levee and the new levee.
- Water Resources, Department of (Government), with Department of Fish and Game, Department of Parks and Recreation, and Moffat and Nichol Engineers: On Franks Tract (owned by Parks and Recreation) convert 45 acres of deep water habitat to 34 acres of shallow tidal habitat and 11 acres of freshwater emergent wetland habitat by removing material from Decker Island; restore 20 acres of Decker Island (owned by Department of Fish and Game) to a mosaic of aquatic, wetland, riparian, and upland habitat.

Implement Projects/Programs on Multiple Sites or Regionwide:

- Pesticide Regulation, Department of (Government): Reduce insecticide loads in the San Joaquin Watershed from insecticides used on almond trees.
- Pesticide Regulation, Department of (Government): Develop a watershed specific pesticide use monitoring strategy.
- Pesticide Regulation, Department of (Government): Implement management practices to prevent offsite movement of Chlorpyrifos and other pesticides from alfalfa.
- San Joaquin County Council of Governments, San Joaquin County, Lower Cosumnes, Florin and Sloughhouse Resource Conservation Districts (Government and Special Districts): Funding for the Mokelumne and Cosumnes Rivers Coordination Program to coordinate and provide an information clearinghouse for several projects in the area.
- San Joaquin County Resource Conservation District (Special District): Continue the Lower Mokelumne River Watershed Stewardship Program for Years 2 and 3.

Education Projects:

- Brentwood, City of, Contra Costa County (Government): Funding for Marsh Habitat and Education Center overlooking Marsh Creek created wetlands.
- Delta Science Center and Natural Heritage Institute (Non-Profit): Funding for development of a "Marsh Creek Watershed Science Program".
- Delta Science Center and Natural Heritage Institute (Non-Profit): Funding for the Delta Science Center at Big Break, a restoration, research, and education project.
- Eco-Action (Nonprofit): Develop curriculum and audio-visual materials to educate youth and adults about the Bay-Delta program.
- Pesticide Regulation, Department of (Government): Make Pesticide Use Report Database available on the Internet.

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